INFORMATION DISCLOSURE STATEMENT

Atty. Docket No.: 150,0088 0103 Serial No.: 10/042,025

Applicant(s): Derderian et al. Confirmation No.:

Filing Date: 25 October 2001 Group: 2818

U.S. PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
-		5,068,199	11/26/91	Sandhu			
*		5.130,172	07/14/92	Hicks et al.			
•		5.130,885	07/14/92	Fazan et al.			
•		5,314,727	05/24/94	McCormick et al.			
		5.318.920	06/07/94	Hayashide			
		5.342.800	08/30/94	Jun			
		5.352.488	10/04/94	Spencer et al.			
·		5.372.849	12/13/94	McCormick et al.			
		5,372,962	12/13/94	Hirota et al.			
		5,392,189	02/21/95	Fazan et al.			
•		5,427,974	06/27/95	Lur et al.			
		5,510,651	04/23/96	Maniar et al.			
		5,520,992	05/28/96	Douglas et al.			
•		5,555,486	09/10/96	Kingon et al.			
		5,566,045	10/15/96	Summerfelt et al.			
-		5.561.307	10/01/96	Mihara et al.			
-		5,581,436	12/03/96	Summerfelt et al.			
-		5,608,247	03/04/97	Brown			
•		5,612,560	03/18/07	Chivukula et al.			
		5,696,014	12.09/97	Figura			
:		5,763,633	06/09/98	Vaartstra			
		5,874,364	02/23/99	Nakabayashi et al.			
		5,877,063	03-02/99	Gilchrist			
		5,935,648	08 10/99	Roberson et al.			

EXAMINER	 Date Considered
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Kaminer Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Liling Date If Appropriate
: .		5.959.327	()9/28/99	Sandhu et al.			
•		5,962,065	10/05/99	Weimer et al.			
		5,962,716	10/05/99	Uhlenbrock et al.			
		5,980,983	11/09/99	Gordon			
		5,985,714	11/16/99	Sandhu et al.			
		5,990,559	11/23/99	Marsh			
		6,015,743	01/18/00	Zahurak et al.			
		6.037.220	03/14/00	Chien et al.			
		6,049,101	04/11/00	Graettinger et al.			
		6,060,367	05/09/00	Sze			
		6,060,351	05/09/00	Parekh et al.			
		6,063,705	05/16/00	Vaartstra			
-		6,074,945	06/13/00	Vaartstra et al.			
		6,078,072	06/20/00	Okudaira et al.			
		6,114,557	09/05/00	Uhlenbrock et al.			
		6.133.159	10/17/00	Vaartstra			
		6,197,628	03/06/01	Vaartstra et al.			
	X	6.281,125	08/28/01	Vaartstra et al.			

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Examiner Initial	Copy Enclosed	Document Number	Date	Country	Class	Subclass	T <u>rans</u> Yes	lation No
,		JP 10163131	06/19/98	Japan (Abstract)				
		WO 0022658 A	06/20/00	PCT				
	N	WO 01/95376	12/13/01	PCT				

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Filing Date: 25 October 2001	Group: 2818

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Copy Enclosed	Document Description Document Description
		Anderson et al., "Carborane Complexes of Ruthenium: A Convenient Synthesis of [Ru(CO) (η]-7,8-C B [H] [] and a Study of Reactions of This Complex," <i>Organometallics</i> , 14, 3516–3526 (1995).
		Aoyama et al., "Chemical Vapor Deposition of Ru and Its Application in (Ba,Sr) FiO Capacitors for Future Dynamic Random Access Memories," <i>Jpn. J. Appl. Phys.</i> , 38(2194–2199 (1999).
		Bai et al., "Low-temperature growth and orientational control in RuO ₂ thin films by metal-organic chemical vapor deposition", <i>Thin Solid Films</i> , 310, 75-80 (1997).
		Bennett et al., "Mono-olefin Chelate Complexes of Iron(0) and Ruthenium(0) with an Olefinic Tertiary Phosphine," <i>J. Chem. Soc. D.</i> , 7, 341-342 (1971).
,		Cowles et al., "Relative Reactivity of Co-ordinated Ligands in the Dienyltricarbonyl-ruthenium Cation, [(dienyl)Ru(CO),]"," Chemical Commun., 392 (1969).
		Green et al., "Chemical Vapor Deposition of Ruthenium and Ruthenium Dioxide Films," <i>J. Electrochem. Soc.</i> , 132, 2677-2685 (1985).
		Igumenov, "MO CVD of Noble Metals", J. De Physique IV, 5, C5, 489-C5-496 (1995).
		Johnson et al., "Chemistry," Nature, 901-902 (1967).
		Kaesz et al., "Low-Temperature Organometallic Chemical Vapor Deposition of Transition Metals," <i>Mat. Res. Soc. Symp. Proc., 131</i> , 395-400 (1989).
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		Liao et al., "Characterization of RuO2 thin films deposited on Si by metal organic chemical vapor deposition," <i>Thin Solid Films</i> , 287, 74-79 (1996).
·		Macchioni et al., "Cationic Bis- and Tris(η2-(pyrazol 1 y1)methane) Acetyl Complexes of Iron (II) and Ruthenium (II): Synthesis, Characterization, Reactivity, and Interionic Solution Structure by NOESY NMR Spectroscopy," <i>Organometallics</i> , 16, 2139–2145 (1997).

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Filing Date: 25 October 2001 Group: 2818

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1		Nakamura et al., "Embedded DRAM Technology compatible to the 0.13 μ m h speed Logics by using Ru pillars in cell capacitors and peripheral vias." <i>IEEE</i> (1998).			
		Park et al., "Metallorganic Chemical Vapor Deposition of Ru and RuO Using Ruthenocene Precursor and Oxygen Gas," <i>J. Electrochem. Soc., 14</i> 7:203-209 (2000).			
		Senzaki et al., Chemical Abstract 128:264103, <i>Proc. Electrochem. Soc.</i> , 97-25 (Chemical Vapor Deposition), 933-43 (1997).			
		Shin, "Characterization of RuO] Thin Films Prepared by Hot-Wall Metallorganic Chemical Vapor Deposition," <i>J. Electrochem. Soc.</i> , 144, 1055 (1997).			
		Sosinsky et al., "Hydrocarbon Complexes of Ruthenium. Part IV. Cyclic Dienyl Complexes", J. Chem. Soc., 16-17, 1633-1640 (1975).			
•		Takagi et al., "RuO ₂ Bottom Electrodes for Ferroelectric (Pb, La)(Zr, Ti)O ₃ Thin Fiolms by Metalorganic Chemical Vapor Deposition", <i>Jpn. J. Appl. Phys.</i> , 34, 4104-4107 (1995).			
		Versteeg et al., "Metalorganic Chemical Vapor Deposition By Pulsed Liquid Injection Using An Ultrasonic Nozzle: Fitanium Dioxide on Sapphire from Fitanium (IV) Isopropoxide," <i>Journal of the American Ceramic Society</i> , 78, 2763–2768 (1995).			
		Yuan, "Low-Temperature Chemical Vapor Deposition of Ruthenium Dioxide form Ruthenium Tetroxide: A Simple Approach to High-Purity RuO ₂ Films," <i>Chem. Mater.</i> , 5, 908 (1993).			
/		Yang, Doo Young et al., "Characterization of Ru Electrodes for Ru/(Ba,Sr) TiO /Ru Capacitors," <i>Lerroelectrics</i> , 1996, ISAF '96; Proceedings of the Tenth IEEE International Symposium on Applications of Ferroelectrics" New York, NY, August 18, 1996; pgs. 515-518.			

EXAMINER	Date Considered
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